E/ECE/324
E/ECE/TRANS/505 } Rev.1/Add.53/Amend.3
18 June 1993

AGREEMENT

CONCERNING THE ADOPTION OF UNIFORM CONDITIONS OF APPROVAL AND RECIPROCAL RECOGNITION OF APPROVAL FOR MOTOR VEHICLE EQUIPMENT AND PARTS

done at Geneva on 20 March 1958

Addendum 53: Regulation No. 54

Amendment 3

Incorporating:
Supplement 3 to this Regulation in its original form – Date of entry into force: 18 August 1991
Correction referred to in the depositary notification C.N.90.1992.TREATIES-8 of 15 June 1992
Supplement 4 to this Regulation in its original form – Date of entry into force: 14 January 1993

UNIFORM PROVISIONS CONCERNING THE APPROVAL OF PNEUMATIC TYRES FOR COMMERCIAL VEHICLES AND THEIR TRAILERS

UNITED NATIONS

Insert a new paragraph 1.4., to read:

"1.4. Tyres of a speed category above 150 km/h."

Paragraphs 2.1.5. and 4.1.5., amend to read:

"Speed category"

Paragraph 2.17.1.3. (former paragraphs 2.16.1.3.), amend the word "inches" to read "codes".

Paragraph 2.17.1.3.1. (former paragraph 2.16.1.3.1.), delete the words "and in inches".

In the table amend the first column heading to read:

"Nominal rim diameter code ('d' symbol)"

and delete the separation between the last two lines (reading "22.5" and "24.5" in the first column).

Paragraph 3.1.6. (former paragraph 3.1.5.), delete the footnote "3/".

Paragraphs 5.4.1. and 6.1.5., renumber the footnotes accordingly to read "3/" and "4/".

Paragraph 6.1.2.1., should be modified as follows:

(a) Formula to read "D = d + 2H"

(b) Add after "Ra" the following:

"'H' is the nominal section height in millimetres and is equal to S_i x 0.01 Ra"

Insert a new paragraph 6.1.5., to read:

"6.1.5. Tyre outer diameter specification

The outer diameter of a tyre must not be outside the values Dmin and Dmax obtained from the following formulae:

$$Dmin = d + (2H \times a)$$
$$Dmax = d + (2H \times b)$$

where:

6.1.5.1 For sizes listed in annex 5

$H = 0.5 (D-d)$ - for references see paragraph 6.1.2.1.

6.1.5.2 For other sizes, not listed in annex 5

'H' and 'd' are as defined in paragraph 6.1.2.1.

6.1.5.3 Coefficients 'a' and 'b' are respectively:

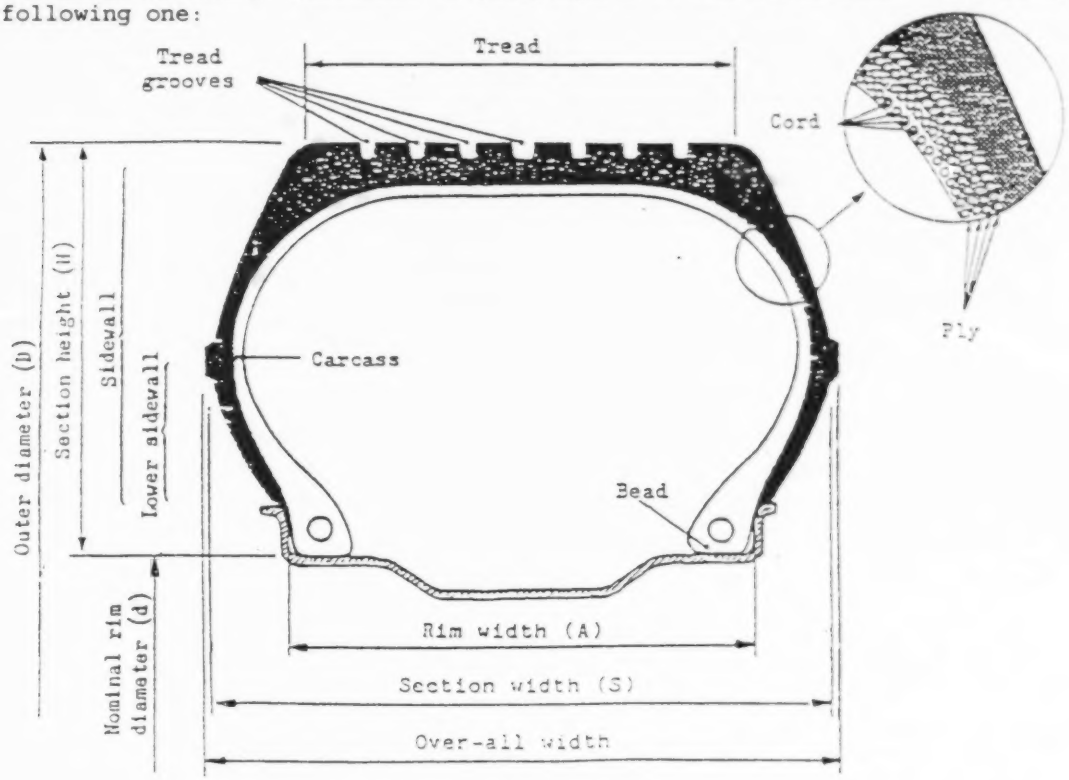
6.1.5.3.1 Coefficient 'a' = .97

6.1.5.3.2 Coefficient 'b'	Radial	Diagonal
for normal use tyres	1.04	1.07
for special use tyres	1.06	1.09"

Paragraph 6.2.1., replace the words "one or more" by "at least one".

Paragraph 6.2.2., delete the words "or tests".

Explanatory figure (pertinent to paragraph 2 of the Regulation) replace by the following one:



Annex 1, to be replaced by the following text:

"Annex 1

(maximum format: A4 (210 x 297 mm))

COMMUNICATION

issued by:

Name of administration:
.....
.....
.....

concerning: 2/ APPROVAL GRANTED
APPROVAL EXTENDED
APPROVAL REFUSED
APPROVAL WITHDRAWN
PRODUCTION DEFINITELY DISCONTINUED

of a type of pneumatic tyre for motor vehicles
pursuant to Regulation No. 54

Approval No. ... Extension No. ..

1. Manufacturer's name or trade mark on the tyre .....

2. Tyre type designation by the manufacturer .....

3. Manufacturer's name and address .....
.....

4. If applicable, name and address of manufacturer's representative .....
.....

5. Summarized description:

5.1 Size of tyre: .....

5.2 Category of use: normal/special/snow 2/

5.3. Structure: diagonal (bias-ply)/radial 2/

1/ Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).

2/ Strike out what does not apply.

5.4 Speed category symbol:

5.4.1. Nominal:.....

5.4.2. Additional (if applicable): .....

5.5. Load-capacity indices:

5.5.1. Corresponding to nominal speed: single ..... twinned (dual).....

5.5.2. Corresponding to additional speed: single ..... twinned (dual).....

6. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity .....

7. Date of report issued by that service .....

8. Number of report issued by that service.....

9. Reason(s) of extension (if applicable) .....

10. Any remarks: .....

11. Place .....

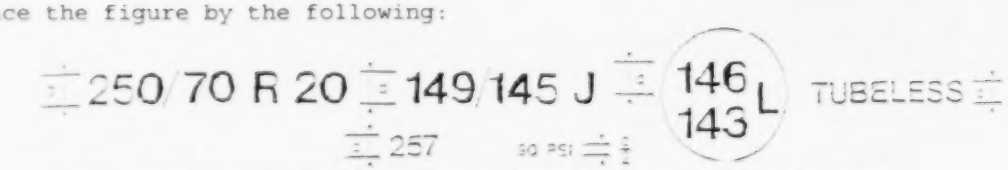
12. Date .....

13. Signature .....

14. Annexed to this communication is a list of documents in the approval file deposited at the Administrative services having delivered the approval and which can be obtained upon request."

Annex 3:

Replace the figure by the following:



and amend the fourth paragraph from the bottom of the page to read:

"Able to be used additionally in speed category L (reference speed 120 km/h) ...."

Table 24 of annex 5 (see document E/ECE/TRANS/324-E/ECE/TRANS/505/Rev.1/Add.53/Corr.1) should be amended by including "radial" in the last column with the following values:

title: "Outer diameter - mud and snow (mm) - radial 2/"

values: "752 - 604 - 680 - 705 - 731 - 756 - 781 - 781 - 807 - 832 - 883 - 934 - 781 - 934 - 781"

Annex 7, Appendix 1

In the second column add the letter "P" at the bottom of the table with a test drum speed for radial ply (third column) of "300" RPM and load percentages "75%, 97% and 114%" respectively.

Footnote (2): First sentence should read:

"Tyres with a Load Index of 122 or more of speed categories above M are not yet produced."

Annex 7, appendix 2, replace by the following text:

"Annex 7, Appendix 2

RELATION BETWEEN THE PRESSURE INDEX AND THE UNITS OF PRESSURE

Pressure Index ("PSI")	Bar	kPa
20	1.4	140
25	1.7	170
30	2.1	210
35	2.4	240
40	2.8	280
45	3.1	310
50	3.4	340
55	3.8	380
60	4.1	410
65	4.5	450
70	4.8	480
75	5.2	520
80	5.5	550
85	5.9	590
90	6.2	620
95	6.6	660
100	6.9	690
105	7.2	720
110	7.6	760
115	7.9	790
120	8.3	830
125	8.6	860
130	9.0	900
135	9.3	930
140	9.7	970
145	10.0	1 000
150	10.3	1 030
...	...	..."

Annex 8

Add, on the right-hand side, a column headed "P" with the following values:

"SPEED km/h	SPEED CATEGORY P 1/
125	0
130	0
135	0
140	0
145	0
150	0
155	- 2.5
160	- 5

For speeds below 125 km/h, reference should be made to Column L."

Add the following footnote 1/ with reference to the new column (SPEED CATEGORY P 1/):

"Load variations are not allowed above 160 km/h.
For speed category symbols Q and above, a speed category corresponding to the speed category symbol (see paragraph 2.27.2) specifies the maximum speed permitted for the tyre."